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FOREST PRODUCTS LAB MADISON WIS WOOD PRODUCTS USED IN CONSTRUCTING FARM BUILDINGS IN THE UNITED--ETC(U)

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WOOD PRODUCTS USED IN CONSTRUCTING FARM BUILDINGS IN THE UNITED STATES, 1958-1975

USDA FOREST SERVICE
RESOURCE REPORT
FPL-2

FOREST PRODUCTS LABORATORY FOREST SERVICE
U.S. DEPARTMENT OF AGRICULTURE

DISSEMBLY STATISTICS A

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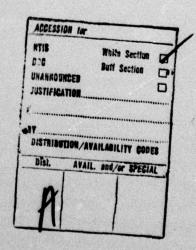
Preface

This report presents estimates of the amounts of lumber, poles, and plywood used in farm building construction in the United States. Consumption of these materials is indicated by farm building and frame types. Amounts of wood products used are shown per square foot of floor area, per building, and per \$1,000 of construction value.

Data for this report are based on three Censuses of Agriculture surveys-1958-1960, 1963-1965, and 1968-1970--as well as the value of new farm construction 1958-1975 as reported by the Bureau of Census. During the three Censuses of Agriculture from 1958 to 1970, farm operators reported the construction of new farm buildings completed on the farm, including type of building, size, cost, and type of material used. The 1973-1975 Census of Agriculture did not include the above information; therefore, wood products use was projected for this period, based on the value of new farm construction as reported by the U.S. Department of Agriculture, Bureau of Census.

This information is intended for use by market research organizations, both public and private, and others interested in evaluating the demand for these wood products.

The McSweeney-McNary Act of 1928, as amended, and Section 2(b) of the Forest and Rangeland Renewable Resources Planning Act of 1974 authorize this study. Under these acts, the Secretary of Agriculture is directed to cooperate with State and other agencies "in making and keeping current a comprehensive survey and analysis of the present and prospective conditions of and requirements for the renewable resources of the forest and range lands of the United States."



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About the Authors

WILLIAM H. REID is a research forester at the Forest Products Laboratory. Madison, Wis., where the Laboratory is maintained in cooperation with the University of Wisconsin.

DAVID C. BAUMGARTNER is also a research forester, North Central Forest Experiment Station at Carbondale, III.

SUMMARY

The total amount of floor area in farm service buildings constructed remained fairly uniform during the three survey periods of 1960, 1965, and 1970 at approximately 750 million square feet; however, the floor area of farm dwellings decreased from about 120 million square feet during the 1960 survey to 60 million during the 1970 survey. General-purpose barns and poultry houses decreased in total floor area, while dairy barns, hog houses, grain storage, and other buildings increased.

All buildings except hog houses decreased in number during the three survey periods. The average size of farm service buildings constructed increased from 1,310 square feet per building to 1,650 square feet.

More than three-fourths of the floor area of farm service buildings constructed during the survey periods were framed with lumber or wood poles. However, the percentage of total floor area and number of farm service buildings framed with wood decreased while those constructed with steel frames increased.

The value of new farm construction put in place in the United States increased from \$750 million in 1958 to \$2,219 million in 1975 (current dollars), or from \$884 million to \$1,128 million (constant dollars, 1967). In current dollars this is an average annual increase of 6.6 percent, or in constant dollars—1.4 percent.

Although the use of lumber in farm service building construction per square foot of floor area remained uniform throughout the survey periods, lumber use per building constructed increased from 3,230 to 4,040 board feet. The amount of lumber per \$1,000 of construction value decreased from 666 board feet in the 1960 survey to 493 board feet during the 1975 projection.

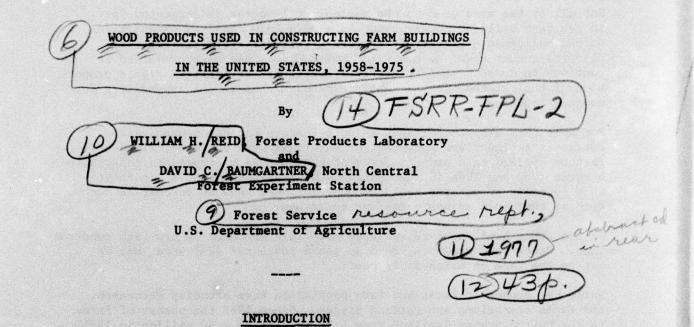
Approximately 99 percent of the poles used in farm building construction were in farm service buildings. During the 1960 survey, over 45 percent of total pole use was in general-purpose barns. During the 1970 survey, pole use was distributed among five building types--dairy barns, general-purpose barns, poultry houses, grain storage, and other buildings. Together, these five types accounted for 80 percent of the total pole use.

Pole use in farm building construction averaged about 0.1 linear foot per square foot during the three survey periods. Use per building ranged from 100 linear feet in 1960 to 147 linear feet in 1970. However, pole use per \$1,000 of construction value dipped from 24 linear feet during the 1960 survey to 19 linear feet for the 1975 projection.

The total amount of plywood used in farm building construction increased from 952 million square feet (3/8-in. basis) during the 1960 survey

to 1,140 million square feet during the 1970 survey. During the 1960 and 1965 surveys, farm service buildings accounted for approximately 60 percent of the plywood used in all farm building construction; during the 1970 survey, they accounted for approximately 75 percent. Over 70 percent of the plywood used in farm service building construction was for hog houses, poultry houses, and other buildings. Plywood use in farm service building construction increased from 565 million square feet of the 1960 survey to 900 million square feet for the 1975 projection.

Plywood used in farm building construction per square foot of floor area increased from 1.0 square foot during the 1960 survey to 1.4 square feet during the 1970 survey. The use of plywood per farm service building constructed during this period increased from 967 square feet to 1,809 square feet, and use per dwelling from 4,124 square feet to 7,656 square feet.



Relatively large volumes of wood materials are used in the construction of new farm buildings. The amounts of lumber, poles, and plywood for this purpose are presented for 3 years of each of the Census of Agriculture survey periods—1958—1960, 1963—1965, and 1968—1970, and projected for 1973—75.

During the Census of Agriculture surveys, estimates were made of the type of buildings, number, size, and other characteristics of buildings constructed on farms. This report combines these estimates with factors of wood use derived from a survey² of farm buildings constructed between January 1963 and June 1966. Estimates of the amounts of lumber, wood poles, and plywood used in new farm construction during each of the last three agricultural survey periods are shown by building type (dairy barns, general-purpose barns, hog houses, poultry houses, grain storage, machinery storage, other buildings, operator dwellings, and other dwellings) and by building frame type (pole, lumber, metal, and other).

¹U.S. Bureau of Census, 1959, Census of Agriculture. Vol. V--Special Reports, Part 5, Sample Survey of Agriculture; 1964, Census of Agriculture. Vol. III--Special Reports, Part 3, Sample Survey of Agriculture; 1969, Census of Agriculture. Vol. V--Special Reports, Part 2, Farm Finance. U.S. Government Printing Office, Washington, D.C.

²Curtis, J. O., D. C. Baumgartner, and E. L. Hansen. 1970. Conversion Factors for Estimating Volumes of Wood Materials in Farm Buildings and Portable Structures. Agricultural Engineering Research Report. University of Illinois at Urbana-Champaign, May.

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Not all of the wood used in the agricultural sector is accounted for in new farm building construction. Between 1950 and 1962 expenditures on the maintenance and repair of farm structures averaged about one-half the amount spent on new farm construction, and were projected to continue to do so. Wood probably accounts for at least as high a proportion of the maintenance and repair expenditure as in the expenditure for new construction.

Portable farm structures, such as self-feeders and hog houses, also represent an important component of materials used on farms. Wood-use factors applied to a sample survey of portable farm structures constructed between 1963 and 1966 in the Central and Appalachian States³ indicated that portable structures could account for more than 20 percent as much wood as that used in new permanent buildings.

On the other hand, some reused wood materials are used in new farm construction. Other wood products, such as fence posts and fuel wood, may be cut on the farm on which it is used.

While the number of farms and farm population have steadily decreased, the farms themselves are getting bigger. Since 1960 the number of farms in the United States declined from 3.96 million to 2.80 million in 1975. During this period (1960-1975) farm population went from 15.7 million to 8.9 million. Meanwhile, the average size of farms in the United States was 297 acres during 1960 and increased to 387 acres during 1975.

TRENDS IN FARM BUILDING CONSTRUCTION

This section of the report concerns characteristics of farm building construction during the three Census of Agriculture survey periods, 1958-60, 1963-65, and 1968-70. The survey periods will be referred to as the 1960, 1965, and 1970 surveys with data for each survey period representing 3 years.

During the 1970 survey period, farm building construction amounted to over 820 million square feet of floor area and over 500,000 buildings (table 1). Construction decreased annually by an average 1 percent in floor area and 3 percent in number of buildings between the 1960 and 1970 periods.

Service building construction, as measured by floor area and number of buildings (figs. 1 and 2), ranged from 86 percent of all farm building

David C. Baumgartner. 1971. The Changing Market for Wood Materials Used in Farm Structures. USDA Forest Service Research Paper NC-61, 6 p. illus. North Central Forest Experiment Station, St. Paul, Minn.

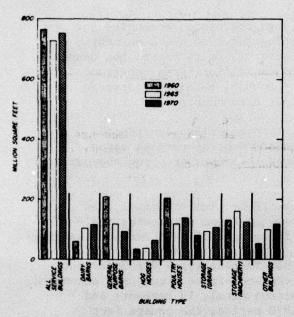


Figure 1.--Floor area of farm service buildings constructed--1960, 1965, and 1970 censuses of agriculture. (M 144 851)

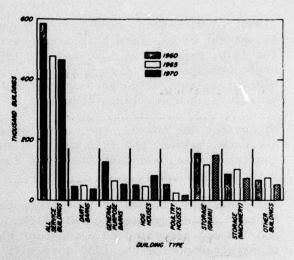


Figure 2.--Number of farm service buildings constructed--1960, 1965, and 1970 censuses of agriculture. (M 144 850)

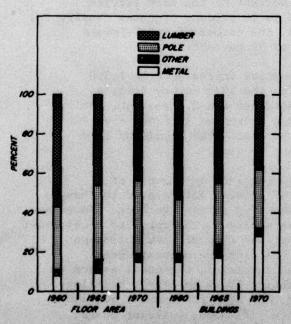


Figure 3.--Percentage of floor area and buildings by frame type in farm building construction--1960, 1965, and 1970 censuses of agriculture.

Figure 4.--Average square feet of floor area per farm service building constructed--1960, 1965, and 1970 censuses of agriculture.

(M 144 849) (M 144 848)

(1960) to 92 percent (1970). Farm dwellings therefore, accounted for 14 percent of the farm building construction for 1960 and 8 percent for 1970. Between the 1960 and the 1970 surveys, dairy barns, hog houses, grain storage, and other buildings increased in floor area constructed. Meanwhile, general-purpose barns, poultry houses, machinery, storage buildings, and dwellings decreased in floor area constructed.

Except for hog houses, the number of all farm buildings constructed decreased between the 1960 and 1970 surveys. General-purpose barns, poultry houses, and farm dwellings declined the most, dropping approximately 9 percent annually.

Buildings are classed in four frame types: Pole, lumber, metal, and "other" including masonry and brick. The wood-frame structures (pole and lumber) comprised 88 percent of the floor area of farm service buildings constructed during the 1960 survey (fig. 3, table 2). Metal-framed buildings accounted for 8 percent and other framing types for 3 percent. However, the 1970 survey indicated that the wood-frame structures accounted for 81 percent of the floor area constructed; metal, 15 percent; and other, 4 percent. During this 1960 to 1970 period, the square feet of pole-framed buildings constructed increased 1 percent annually; lumber-framed decreased 3 percent; metal-framed increased 7 percent; and other-framed increased 3 percent.

Wood-framed buildings decreased from 80 percent of the farm service buildings constructed in the 1960 survey to 66 percent of those constructed in the 1970 survey. In this same period, the number of metal-framed buildings constructed increased from 17 to 30 percent.

The average size of farm buildings constructed increased from 1,300 square feet in the 1960 survey to 1,634 in the 1970 survey (fig. 4, table 3). The annual increase for all buildings was 2.3 percent. Dairy barns, poultry houses, and other buildings increased in floor area during this period at an annual rate of over 7 percent. The remaining farm buildings increased at a rate of 3 percent or less.

During the 1950's and early 1960's, rapid declines in the use of lumber on farms were attributed to several causes, all related to changes in the number and size of farms and to changing farming methods. Fewer and larger farms needed more crop and machine storage. The trend to confinement production of livestock changed the number and type of farm buildings needed and the rate of wood use. Fewer buildings were constructed. Even though the average size of buildings increased, the total square footage of farm buildings decreased slightly. More pole-type buildings were erected with metal roofs and siding, and more confinement buildings were built primarily of metal and concrete. Plywood, building board, and non-wood materials were substituted for lumber in many farm building applications.

The increased number of farm buildings constructed by contractors and manufacturers paralleled and probably influenced the changes in types of buildings constructed and material used during the 1950's and early 1960's. One study of buildings constructed by contractors and manufacturers during 1968' showed that contractor-built buildings were dominated by the pole frame-metal wall type, and that most manufactured buildings were of metal. Contractor-built and manufactured buildings were also larger and used less wood than the average for all farm buildings. Apparently these non-operator builders were the trend setters in the farm building field.

WOOD PRODUCTS USE IN FARM BUILDING CONSTRUCTION

Lumber, pole, and plywood use factors⁵ are stratified by building type and principal framing material. Lumber and pole uses per square foot of floor area in farm building construction are derived from a survey of buildings constructed during the period 1963 to 1966. These factors are used for the three surveys—1960, 1965, and 1970. It was assumed that changes in lumber and pole demand would be reflected in the framing material (lumber and poles) of the buildings constructed.

The plywood-use factors were adjusted to reflect the change in plywood consumption between 1958 and 1970. During the period of the three agriculture surveys the average annual consumption of softwood plywood in the United States increased from 9.3 billion square feet (1960) to 17.8 billion (1970). Because the plywood use factors were developed during the period 1963 to 1966 and consumption during this period averaged 14.7 billion square feet annually, the plywood use factors for 1970 were increased 17 percent over the factors for 1965 to reflect the increased consumption of plywood. In like manner, they were decreased 25 percent to reflect lower consumption of plywood for the 1960 survey.

Lyle Solverson and David C. Baumgartner. 1974. Farm building Contractors and Manufacturers: Their Role in Midwest Farm Construction. USDA Forest Service Research Note NC-160, 4 p. illus., North Central Forest Experiment Station, St. Paul, Minn.

⁵Derived from reference in footnote 2.

Robert B. Phelps. 1975. The Demand and Price Situation for Forest Products 1974-1975. U.S. Dept. of Agriculture, Misc. Pub. 1315. Table 30.

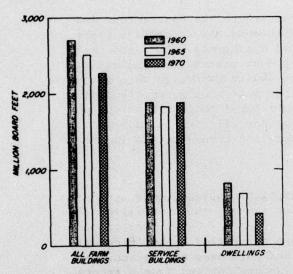


Figure 5.--Lumber used in farm building construction--1960, 1965, and 1970 censuses of agriculture.

(M 144 847)

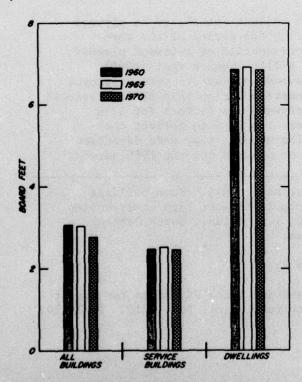


Figure 7.--Lumber used per square foot of floor area in farm building construction--1960, 1965, and 1970 censuses of agriculture.

(M 144 845)

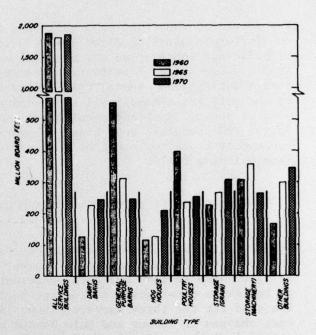


Figure 6.--Lumber used in farm service building construction--1960, 1965, and 1970 censuses of agriculture. (M 144 846)

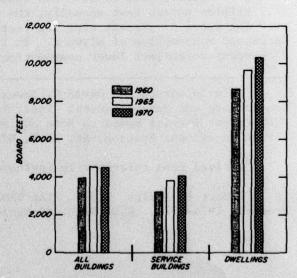


Figure 8.--Lumber used per building in farm building construction--1960, 1965, and 1970 censuses of agriculture.
(M 144 844)

Total wood use by building and frame type was derived by multiplying the wood use per square foot of construction times the square feet of construction. Wood use per building was derived by dividing the total wood use per square foot by the number of buildings.

Lumber

Total Lumber Used

Total amount of lumber used in farm building construction was approximately 2.7 billion board feet (1960), 2.5 billion (1965), and 2.3 billion (1970) (fig. 5, table 4). Thus, lumber use was decreasing at an average annual rate of 1.7 percent. Lumber used in dwellings declined from 0.8 billion board feet (1960) to 0.4 billion board feet (1970—an average annual rate of 6.7 percent. Lumber used in farm service building construction amounted to over 1.8 billion board feet during each of the survey periods (fig. 6). Lumber used in constructing dairy barns, hog houses, and buildings classified as "other" increased at an annual rate of approximately 7 percent between the 1960 and 1970 surveys while lumber used in general-purpose barns decreased at approximately the same rate.

Use Per Unit of Measure

Lumber use in all farm buildings averaged 3.06 board feet per square foot of floor area (1960), 3.03 board feet (1965), and 2.77 board feet (1970) (fig. 7, table 5). The difference in wood use per square foot between the 1960 and 1970 survey periods is due primarily to shifts in the mix of buildings and type of structural framing used. The farm service buildings averaged 2.5 board feet per square foot of floor area and the dwellings 6.9 board feet.

Lumber use per building averaged 3,980 board feet in the 1960 survey and 4,520 board feet in 1970 (fig. 8). Most of the increase may be attributed to increased size of buildings.

Between the 1960 and the 1970 surveys, poultry houses, dairy barns, and other buildings had the greatest increase in the amount of lumber use per building (fig. 9). These buildings also had the highest average annual increase in floor area per building, ranging between 7 and 11 percent.

Poles

Total Poles Used

The total quantity of poles used in farm building construction during the 1960 survey was approximately 68 million linear feet, during the

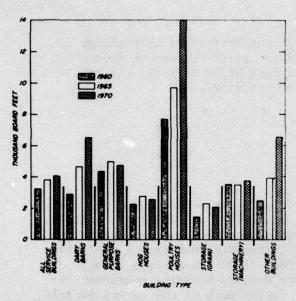


Figure 9.--Lumber used per building in farm service building construction-1960, 1965, and 1970 censuses of agriculture.

(M 144 843)

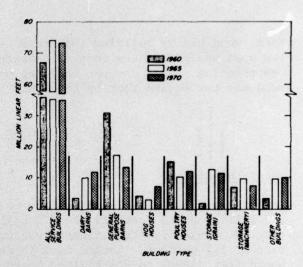


Figure 10.--Poles used in farm service building construction--1960, 1965, and 1970 censuses of agriculture. (M 144 842)

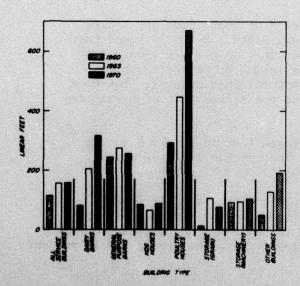


Figure 11.--Poles used per building in farm service building construction-1960, 1965, and 1970 censuses of agriculture.
(M 144 841)

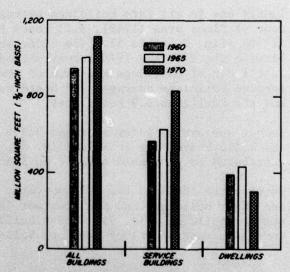


Figure 12.--Plywood used in farm building construction--1960, 1965, and 1970 censuses of agriculture. (M 144 840)

1965 survey 75 million, and during the 1970 survey 74 million (table 6). Using a conversion factor of 6 board feet per linear foot, the 1960 pole use was equivalent to 408 million board feet, 1965 use was 450 million board feet, and the 1970 use was 444 board feet.

Approximately 99 percent of the poles in farm building construction were used in farm service buildings and 1 percent in farm dwellings. During the 1960 survey, over 45 percent of the poles in farm service building construction were used in generalpurpose barns, while the 1970 survey indicates that only 18 percent were used in their construction (fig. 10).

Use Per Unit of Measure

Pole use in farm building construction averaged about 0.1 linear feet per square foot during the three survey periods (table 7). Differences in pole use within a building type and among survey periods are due to changes in the square footage of building frame types. The use of poles per square foot of floor area was highest in the generalpurpose barns and lowest in farm dwellings.

Pole use per building ranged from 100 linear feet during the 1960 survey to 147 linear feet during the 1970 survey. This is an average annual increase rate of 3.9 percent and reflects the general increase in building size. During each of the three surveys, poultry houses had higher amounts of pole use per building than any of the other types (fig. 11).

Plywood

Total Plywood Used

Total plywood used in farm building construction amounted to 953 million square feet (3/8-in. basis) during the 1960 survey, 1,061 million square feet in 1965, and 1,138 million square feet in 1970 (table 6). During the 1960 and 1965 surveys, farm service buildings accounted for almost 60 percent of the total plywood used in farm building construction, but by 1970 farm service buildings accounted for almost 75 percent of the total (fig. 12).

Over half of the plywood used in farm service building construction went into poultry house construction according to the 1960 survey (fig. 13). During later surveys this building type accounted for 30 percent; when combined with buildings classified as other, it accounted for about 60 percent of plywood used.

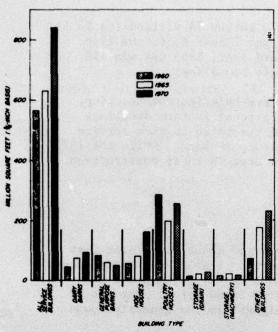


Figure 13.--Plywood used in farm service building construction--1960, 1965, and 1970 censuses of agriculture.

(M 144 839)

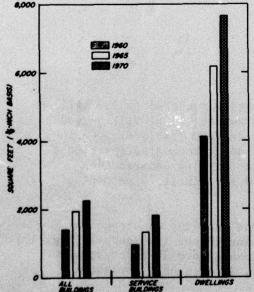


Figure 15.--Plywood used per building in farm building construction--1960, 1965, and 1970 censuses of agriculture.
(M 144 837)

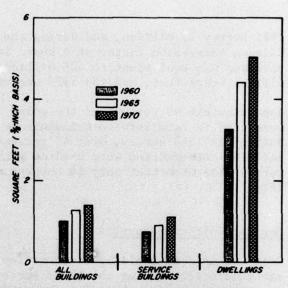


Figure 14.—Plywood used per square foot of floor area in farm building construction—1960, 1965, and 1970 censuses of agriculture.
(M 144 838)

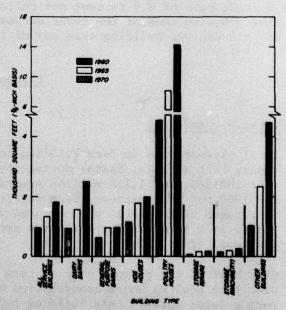


Figure 16.--Plywood used per building in farm service building construction-1960, 1965, and 1970 censuses of agriculture.
(M 144 836)

Use Per Unit of Measure

Plywood use per square foot of floor area in farm building construction was 1.1 square foot (3/8-in. basis) during 1960, 1.3 square feet during 1965, and 1.4 during 1970 (table 8, Fig. 14). Plywood use in dwellings per unit of measure (floor area or building) exceeded that used in farm service buildings by over four times.

Plywood use per building in farm building construction increased from 1,400 square feet during the 1960 survey to nearly 2,270 during the 1970 (fig. 15). Poultry houses used the highest amount of plywood per building in construction (fig. 16).

Extensic f Wood Products Use Figures

Estimates of the amounts of wood products used in farm service building construction per \$1,000 of construction value put in place were projected to 1975 (table 9). The "value of construction put in place" is a measure of the value of construction installed or erected during a specific period. It includes cost of materials installed, cost of labor performed, contractor's profit, site preparation, and proportionate share of the cost of construction equipment used.

The value of new farm construction put in place includes the cost of constructing farm service buildings, wells, fences, and additions and alterations to farm buildings. This value has been reported annually by the Bureau of Census since 1915 in both current and constant dollars. Between 1958 and 1975, the value of new farm construction put in place increased about 6.6 percent annually in current dollars and about 1.5 percent in constant dollars (fig. 17). In comparison, all new construction (residential and nonresidential) put in place increased about 5.8 percent in current dollars and 1.1 percent in constant (1967) dollars.

The ratio of wood products use per \$1,000 of construction value is expressed in constant (1967) dollars to avoid the inflationary trend of current dollars. Wood products used in farm service building construction as determined for agriculture survey periods 1960, 1965, and 1970 were divided by the values of new construction put in place, to develop factors of wood products use per \$1,000 (constant) of construction value. These values were plotted and curves fitted to estimate wood use for the period 1973-1975 (fig. 18).

Lumber

The amount of lumber for farm service building construction was approximately 1.8 billion board feet in each of the four periods. Although the total

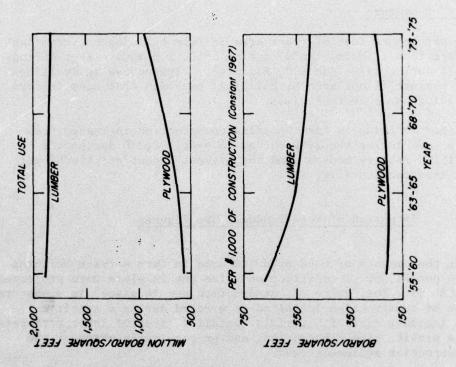


Figure 18. -- Lumber and plywood used in farm service building construction.

(M 144 834)

Figure 17. -- Value of new farm construction put in place in the United States.

10001

(M 144 835)

3,000

2,000

SHITTION DOTT WEE

6,000

5,000

use was fairly uniform, the amount used per \$1,000 of construction value decreased from 666 board feet during the 1960 survey to 493 board feet for 1975--an average annual rate of 1.8 percent.

Poles

Poles in farm service building construction amounted to approximately 72 million linear feet for 1975. This was about 5 percent greater than the amount used during the 1960 survey but 2 percent less than that used during the 1965 survey.

Poles used per \$1,000 of construction value amounted to 23.6 linear feet during the 1960 survey and 19.0 linear feet for 1975. This decrease amounts to an average annual rate of 1.3 percent.

Plywood

Plywood in farm service building construction increased from 565 million square feet (3/8-in. basis) during the 1960 survey to 900 million square feet for 1975--an average annual increase of 2.8 percent.

The use of plywood per \$1,000 of construction value in 1975 amounted to 239 square feet, as compared to 200 square feet in 1960.

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Table 1.--Floor area and number of buildings constructed during survey periods by building and frame type

Farm building and	:					Survey P	eı	riods			
frame type	•			oor area						Buildings	
		1958-60	:	1963-65	•	1968-70	:	1958-60	:	1963-65 :	
			15/500	ND SQUARE	720		200		100	NUMBER	
Dairy barns	•		:		•		:		:		
Pole	:	8,393	:	44,473 :	:	49,648	:	6,468	:	17,494 :	13,789
Lumber	:	36,312	:	31,250 :	:	40,340	:	27,984	:	16,223 :	13,382
Metal	:	2,969	:	7,234 :	:	12,750	:	2,288	:	3,654 :	3,573
Other	:	9,421	:	21,116 :	:	12,552	:	7,260	:	11,881 :	6,814
Total										49,252 :	
General-purpose barns					:		:		:		
Pole										36,044 :	
Lumber	:	78,722	:	42,375	:	28,487	:	47,965	:	22,543 :	16,069
Metal	:	5,477	:	4,919 :	:	9,247	:	3,337	:	2,637 :	5,191
Other	:	3,219	:	2,975	:	1,588	:	1,961	:	1,570 :	887
Total	•	208,438	:	118,117	:	93,400	:	127,000	:	62,794 :	52,647
Hog houses			:		:		:		:		
Pole	:	15,050	:	10,679	:	25,372	:	22,100	:	9,333 :	26,094
Lumber	:	18,693	:	22,498 :	:	34,307	:	27,450	:	33,147 :	48,800
Metal	:	307	:	1,522 :	:	3,550	:	450	:	1,274 :	4,363
Other	:		:	2,187	:	2,522	:		:	1,734 :	2,119
Total	•	34,050	:	36,886	:	65,751	:	50,000	:	45,488 :	81,376
Poultry houses			:		:		:		:		
Pole	:	52,108	:	39,194	:	41,864	:	13,416	:	8,015 :	5,411
Lumber										13,043 :	
Metal	:	2,222	:	7,369	:	18,141	:	572	:	1,507 :	2,337
Other										1,675 :	
Total	:	201,968	:	118,534	:	139,546	:	52,000	:	24,240 :	18,090

(Page 1 of 3)

Table 1.--Floor area and number of buildings constructed during survey periods by building and frame type--continued

Farm building and frame type	:					Survey	P	eriods				
	:			loor are			•			Buildings		
			13.00				S	1958-60	:	1963-65		1968-70
	:	THOUS	AN	SQUARE	F	EET	-:		-:	NUMBER	:	
Storage (grain)			:		:				:			
Pole	:	5,987	:	41,441	:	36,866	:	11,625	:	22,854		24.856
Lumber	:	29,376	:	19,245	:	27,558	:	57,040	:	24,986		20.559
Metal	:	43,026	:	29,462	:	41,060	:	83,545	:	67.752	. 1	103.151
Other	:	1,437	:	2,548	:	1,875	:	2,790	:	3,055		1.829
Total	•	79,826	•	92,696	:	107,359	:	155,000	:	118,647	. i	50,395
Storage (machinery)			:		:							
Pole	:	61,787	:	75,855	:	56,824	:	41,412	:	48,939		32.657
Lumber	:	60,229	:	60,459	:	41,169	:	40,368	:	39,006		23.682
Metal	:	7,658	:	17,120	:	22,803	:	5,133	:	11.045		13,110
Other	:	130	:	5,629	:	2,465	:	87		3,631		1,418
Total	•	129,804	:	159,063	:	123,261		87,000	:	102,621		70,867
Other buildings	•											
Pole	:	11,327	:	32,195	:	33,203	:	15,042		24,689		14.797
Lumber	:	33,356		50,720	:	58,340	:	44,298		38,896 :		25,984
Metal	:	2,026	:	6,062	:	14,263		2,691		4,649 :	1	6.374
Other		5,248	:	10,471	:	11,107		6,969	:	8,030 :		4,942
Total	•	51,957	•	99,448	:	116,913	:	69,000	:	76,264 :		
All service buildings	: :				:							
Pole	:	275,672	:	311,685	:	297,855		183.800		167,368 :	1	48 104
Lumber	:	399,883	:	290,325	:	306,951		281,973		187,844 :	1	58.417
Metal		63,685	:	73,688		121,814		98,016		92,518 :	1	38.099
Other	:	23,898	:	53,119	:	34,900		20,211		31,576 :		18.416
Total	12.	763.138		728.817		761 520		584 000		479,306:	7	63 036

Table 1.--Floor area and number of buildings constructed during survey periods by building and frame type--continued

Farm building and frame type	•					Survey	Pe	riods		
Trame type	i			loor area			:		Buildings	
	•	1958-60	:	1963-65	: 1	968-70		1958-60	1963-65	
	:		N 27.0	D SQUARE	ALSO RESERVE		WAS CITY		NUMBER	!
Operator dwellings										
Pole		7.367		4.155		4.271		6.031	4,458	. 2 53
Lumber	25000	92,615		76.537		46.558		65.588	48,483	. 27 68
Metal		1.052		656	•	534		754	557	. 32
Other		4,210	:	5,085	•	2.029		3.015	2,229	1 20
Total	•	105,244	:	86,433	• 7	53,392		75,388	55,727	: 31,74
other dwellings and	:				•					
ounkhouses			:		:		:			
Pole	:	1,431	:	1,233		609	:	2,047	1,517	: 828
Lumber	:	10,667	:	9,063	•	4,538	:	15,262	11,309	: 6,084
Metal		130	:	82	:	55	:	186 :	138	: 5!
Other	:	780	:	696	:	332	:	1,117	827	: 46
Total	•	13,008	•	11,074	•	5,534	•	18,612	13,791	: 7,434
All dwellings	:						:			
Pole	:	8,798	:	5,388	:	4,880	:	8,078 :	3,476	: 3,35
Lumber	:	103,282	:	85,600	:	51,096	:	80,850 :	61,176	: 33,76
Metal				738					695	: 37
Other		4,990						4,132 :		
Total	•	118,252	•	97,507	• =	58,926	•	94,000 :	69,518	: 39,178
All buildings										
Pole		284.470		317.073	: 30	2.735		191.878	170,844	. 151 46
Lumber		503,165		375,925	: 3!	8.047		362.823	249,020	. 192.186
Metal		64,867		74,426	: 12	22.403		98.956	93,213	: 138.476
Other		28,888	:	58,900		37.261		24.343	35,747	: 20.080
Total		881,390		826, 324	. 8	20.446		678 000	548,824	502 21

Sources:

U.S. Bureau of Census, Census of Agriculture 1959, Vol. V-Special Reports, Part 5 Sample Survey of Agriculture; Census of Agriculture 1964, Vol. III-Special Reports, Part 3 Sample Survey of Agriculture; Census of Agriculture 1969, Vol. V-Special Reports, Part 2 Farm Finance. U.S. Government Printing Office, Washington, D.C.

Table 2.--Percent of floor area and of number of buildings constructed during survey periods, by building and frame type

	: :				Survey	P	eriods				
Farm building and frame type	:		ent of to			: :	P.	er	cent of a	111	
	: : 1958-								1963-65		
Dairy Barns	•			:		:		:		•	
Pole	: 1.	l :	6.1	:	6.5	:	1.1	:	3.6	:	3.0
Lumber	: 4.	3:	4.3	:	5.3	:	4.8	:	3.4	:	2.9
Metal	: 0.	4 :	1.0	:	1.7	:	0.4	:	0.8	:	0.7
Other	: 1. 7.	2:	2.9	:	$\frac{1.6}{15.1}$:	$\frac{1.2}{7.5}$:	$\frac{2.5}{10.3}$:	$\frac{1.5}{8.1}$
Total	: 7.	5:	14.3	:	15.1	:	7.5	:	10.3	:	8.1
General-Purpose Barns	•			:		:		:		:	
Pole	: 15.	9 :	9.3	:	7.0	:	12.6	:	7.5	:	6.6
Lumber	: 10.	3 :	5.8	:	3.7	:	8.2	:	4.7	:	3.5
									0.6	:	1.1
Other	: <u>0.</u> : <u>27.</u>	4 :	0.4	:	$\frac{0.2}{12.3}$:	0.3	:	0.3	:	0.2
Total	: 27.	3:	16.2	:	12.3	:	21.7	:	13.1	:	11.4
Hog Houses	•)			:		:		:		:	
Pole	: 2.	0 :	1.5	:	3.3	:	3.8	:	1.9	:	5.6
Lumber	: 2.	4 :	3.1	:	4.5	:	4.7	:	6.9	:	10.5
Metal	: 0.	1 :	0.2	:	0.5	:	0.1	:	0.3	:	1.0
Other	: 0.	0 :	<u>0.3</u> 5.1	:		:		:	0.4	:	0.5
Total	: 4.	5 :	5.1	:	8.6	:	8.6	:	9.5	:	17.6
Poultry houses	•			:		:		:		:	
Pole	: 6.								1.7		
Lumber									2.7	:	2.1
Metal			1.0	:	2.4		0.1		0.3	:	0.5
Other	: 0.		1.1	:	0.3	:	0.2	:	0.4	:	0.1
Total	: 26.	5	16.3	:	18.3	:	8.9	:	5.1	:	3.9

Table 2.--Percent of floor area and of number of buildings constructed during survey periods, by building and frame type-continued

	: :					Survey	P	eriods				
Farm building and frame type	:::	Pe		ent of to loor area		al	::	P		cent of building		1.
	: : :	1958-60	:	1963-65	:	1968-70	: :	1958-60	:	1963-65	:	1968-70
Storage (grain)												11E (11E)
Pole	:	0.8		5.7		4.8		2.0		4.8		5.4
Lumber		3.8		2.6				9.7		5.2		4.4
Metal		5.6		4.0		5.4				14.2		22.3
Other		0.2			:			0.5		0.6		0.4
Total	:	10.4	:	$\frac{0.4}{12.7}$		$\frac{0.3}{14.1}$:	26.5	i	24.8	i	32.8
Storage (machinery)	•		•		:						•	
Pole	:	8.1		10.4	:	7.5		7.1		10.2		7.1
Lumber	:	7.9	:	8.3	:	5.4		6.9		8.1		5.1
Metal	:	1.0				3.0		0.9		2.3	1 4800	2.8
Other	:	0.0	:	0.8	:	0.3	:	0.0		0.8	:	0.3
Total	•	17.0	:	21.8	:	16.2	•	14.9	:	21.4		15.3
Other buildings			:		:				•			
Pole	:	1.5		4.4	:	4.4	:	2.6		5.1		3.2
Lumber	:	4.4	:	7.0	:	7.6	:	7.6	:	8.1		5.6
Metal	:	0.2	:	0.8	:	1.9	:	0.4	:	1.0		1.4
Other	:	0.7	:	1.4	:	1.5	:	1.2	:	1.7		1.1
Total	•	6.8	:	13.6	:	15.4	:	11.8	:	15.9	:	11.3
All service buildings			:		:		:					
Pole	:	36.1	:	42.7	:	39.1	:	31.5	:	34.9	:	32.0
Lumber	:	52.4	:	39.8	:	40.3	:	48.3	:	39.2	:	
Metal	:	8.4	:	10.1	:	16.0	:	16.8	:	19.3	:	29.8
Other	:	3.1	:	7.4	:	4.6	:	3.4	:	6.6	:	4.0
Total	:	100.0	:	100.0	:	100.0	:	100.0	:	100.0	:	100.0

Table 3.--Average size of buildings constructed during survey periods and annual rate of size change between 1960 and 1970

Farm building type	:		Su					Annual rate
	•			1963-1965	:	1968-1970	i	
				SQUARE FT.				
Dairy barns	•	1,298	:	2,113	:	3,070	•	9.0
General-purpose barns	•	1,641	:	1,881	•	1,774	•	.8
Hog houses	•	681	•	811	•	808	•	1.7
Poultry houses	•	3,884	•	4,890	•	7,711	:	7.1
Storage (grain)	•	515	•	781	:	714~		3.3
Storage (machinery)	•	1,492	•	1,550	•	1,739	•	1.5
Other buildings	•	753	:	1,304	•	2,244	:	11.5
All service buildings	•	1,307	•	1,521	:	1,645	•	2.3
Operator dwellings	•	1,396		1,551		1,682	•	1.9
Other dwellings and bunkhouses	•	699	•	803	:	744	:	6
All dwellings	•	1,258	•	1,403	•	1,504	•	1.8
All buildings	•	1,300		1,506	•	1,634	•	2.3

Table 4.--Dimension and board lumber used in farm building construction, by building and frame type, during the survey periods

Farm building and frame type	•					Survey per					
rrame type	:	1958 -	1	960		1963 -	1	1965	100	1968 ~ 1	970
adamah da arawa da a	: 1	Dimension	:	Board		Dimension	:	Board		Dimension :	Board
			TI	HOUSAND 1	30	ARD FEET					
Dairy barns			:		:		:		:		
Pole	:	14,436	:	5,455	:	76,494	:	28,917	:	85,395 :	32,271
Lumber	:	64,272	:	22,150	:	55,313	:	19,063	:	85,395 : 71,402 :	24,607
Metal	:										
Other	:	15,639	:	5,087	:	35,053	:	11,403	:	20,836 :	6,778
Total		94,881	:	32,692	:	168,162	:	59,373	:	179,928 :	63,656
General-purpose barns			:		:		:				
Pole	:	229,938	:	105,287	:	128,911	:	59,028	:	102,748 :	47.048
Lumber	:	124,381	:	73,211	:	66,953	:	39,409		45,009 :	26.493
Meta1	:	7,065	:	6,408	:	6,346	:	5,755	:	11,929 :	10.819
Other	:	3,992	:	1,288	:	3,689	:	1,190		1,969 :	635
Total	•					205,899					
Hog houses					:	41.	:				
Pole	:	26,338	:	4,064	:	18,688	:	2,883		44,401 :	6.850
Lumber		55,705	:	26,544	:					102,235 :	
Meta1		34	:							391 :	
Other	:				:					5,448 :	
Total	•	82,077	:	30,608	:					152,475 :	
Poultry houses											
Pole		72,951	:	71,388		54,872	:	53,696	:	58,610 :	57.354
Lumber		187,585	:	57,278	:	83,549	:	25,511	:	100,543 :	30.700
Metal							:				
Other										4,326 :	
Total										163,479 :	

Table 4.--Dimension and board lumber used in farm building construction, by building and frame type, during the survey periods--continued

Farm building and			Survey peri	ods		
frame type	: 1958 - 1		1963 -		: 1968 - 1	970
Almost management		Board	: Dimension :	Board	: Dimension :	
		THOUS	AND BOARD FEE	r		
Storage (grain)					rich in September	
Pole	: 12,333 :	6,705	: 85,368 :	46,414	: 75,944 :	41,290
Lumber	: 112,510 :	47,883	: 73,708 :	31,369	: 105,547 :	44,920
Metal	: 37.002 :		: 25.337 :		. 35.312 .	L
Other	: 2,400 :	1,653	: 4,255 :	2,930	: 3,131 :	2,15
Total	: 164,245 :	56,241	: 188,668 :	80,713	: 219,934 :	88,360
Storage (machinery)					and Africa Applie	
Pole	: 98,859 :	54,990	: 121,368 :	67,511	: 90,918 :	50,57
Lumber	: 87,934 :	57,218	: 88,270 :	57,436	: 60,107 :	39,11
Metal	: 6,739 :	77	: 15,066 :	171	: 20,067 :	228
Other	: 155 :	38	: 6,699 :	1,632	: 2,933 :	71
Total	: 193,687 :	112,323	: 231,403 :	126,750	: 174,025 :	90,627
Other buildings					, in	
Pole	: 19,256 :	8,495	: 54,732 :	24,146	: 56,445 :	24,90
Lumber	: 76,719 :	50.034	: 116.656 :	76,080	: 134,182 :	87,51
Metal	: 2,431 :		: 7,274 :		: 17,116 :	
Other		2,624	: 15,707 :	5,236	: 16,661 :	5,554
Total	: 106,278 :	61,153	: 194,369 :	105,462	: 224,404 :	117,96
All service buildings					a second	
Pole	: 474,111 :	256, 384	: 540,433 :	282,585	: 514,461 :	260.288
Lamber	: 709,106 :		: 551,493 :	280,815	: 619.025 :	302.05
Metal	: 53,805 :		: 55,492 :	5,926	: 87,110 :	11.04
Other	: 36,945 :		: 82,826 :	28,286	: 55,304 :	18.84
Total			: 1,230,244 :			

Table .--Dimension and board lumber used in farm building construction, by building and frame type, during the survey periods--continued

Farm building and			Survey perio	ods		
frame type	: 1958 -	1960	: 1963 -	1965	1968 -	1970
	: Dimension :	Board	: Dimension	Board	Dimension :	Board
		THOUS	AND BOARD FE	er e		
Operator dwellings						
Pole	: 23,869 :	12,082	: 13,462	: 6,814	13,838 :	7,004
Lumber	: 500,121 :	161,150		: 133,174		
Metal	: :					
Other	: 19,913 :	4,421		: 5,339	9,597 :	2,130
Total	: 543,903 :	177,653		: 145,327		
Other dwellings and						
bunkhouses	•		•	:		
Pole	: 5,295 :	2,375	: 4,562	: 1,973	2,253 :	974
Lumber	: 59,735 :	19,200	: 50,753	: 16,313	25,413 :	8,168
Hetal	: 130 :	156	: 82	: 98	55 :	66
Other	: 3,689 :	819	: 3,292	: 731	1,570 :	
Total	: 68,849	22,550	: 58,689	: 19,115	29,291 :	9,557
All dwellings						
Péle				: 8,787	16,091 :	7,978
Lamber	: 559,856 :	180,350	: 464,053	: 149,487	276,826 :	89,179
Hetal	: 130 :	156	: 82	: 98	55 :	66
Other	: 23,602	5,240	: 27,344	: 6,070	11,167 :	2,479
Total	: 612,752	200,203	: 509,503	: 164,442	304,139	99,702
All buildings						
Pole Pullaings	. 502 275	270 043		201 272	****	
Iamber	: 1,268,962	514 660	: 558,457	: 291,372	530,552 :	(In the content of the latest depotential)
Metal .						A STATE OF THE PARTY OF THE PAR
Other			: 55,574			
	: 60,547	18,463	: 110,170	: 34,356	66,471	21,320
Total -	: 1,886,719	810,613	: 1,739,747	: 762,054	: 1,580,039 :	691,93

Table 5. -- Dimension and board lumber used in farm building construction per square foot of flox

Farm building and	4 形				S	Survey periods	spo					
fres type			Dimension lumber	lumber					Board lumber	lumber		
	.1958-	1958-60:1963-65:1968-70:1958-60:1963-65:1968-70:1958-60:1963-65:1968-70:1958-60:1963-65:1968-70	1968-70:	1958-60;	1963-65:	1968-70:	1958-60	1963-65	1968-70	1958-60	1963-65	1968-7(
	8	BOARD FT./SQ. FT. OF : BOARD FT./BUILDING FLOOR AREA :	8	BOARD	FT./BUI	LD TING	BOARD	BOARD FT./SQ. FT. OF : FLOOR AREA :	FT. 08		BOARD FT./BUILDING	DITIO
Diary barns Fole		1.72		2,232	4,373	6,193 :		0.65		843	: 1,652	2,340
[umber Meta]	• •	1.77		2,297	3,410	: 5,336 : : 642 :		ē.		. 792	: 1,175 : 1	
other Total	1.6		1.36	2,154 : 2,156 :	3,414	3,058 :	0.57	. 0.57	0.55	701	: 1,205	1,695
General-purpose barns Pole Lumber Metal		1.58		3,118 : 2,593 : 2,117 :				.93		; 1,428 ; 1,526 ; 1,920	: 1,638 : 1,748 : 2,182	1,543
Other Total	1.75		1.73	2,036 : 2,877 :	3,279	3,071	0.89	. 0.89	16.0:	: 657	: 758	1,61
Hog houses Pole Lumber Netal		2.88		1,192 2,029	2,002 : 2,023 : 131 :			0.27		184 186	 88	1 983
Other Total	. 2.41	2.16	2.32	1,642	: 2,724	: 2,571	0.90	. 0.38	. 0.87	622	200	700

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Table 5. --Dimension and board lumber used in farm building construction per square foot of floor area and per building, by building and frame type, during survey periods --continued

Pars building and					8	Survey periods	spo					
			Dimension lumber	n lumber					Board lumber	m ber		
	.1958-	60:1963-6	1958-60:1963-65:1968-70:1958-60:1963-65:1968-70:1958-60:1963-65:1968-70:1958-60:1963-65:1968-70	1958-60:	1963-65	1968-70	1958-60	1963-6	11968-70	1958-60	1963-65	1968-70
	BON	TLOOR AREA	BOARD FT./SQ. FT. OF : FLOOR AREA		BOARD PT./BUILDING	LDING	BOAR	D FT./SQ.	BOARD FT./SQ. FT. OF : BOARD FT./BUILDING FLOOR AREA	BOARD	FT./BUI	LDING
Poultry houses Pole Insher	.	\$:			6,846	10,832		1.37		5,321		6,699 :10,600
7					8 1			?		1,39	1,30	2,000
Special Specia	1.3	1.38	1.17	5,143	6,234	10,629	0.65	: 0:15	. 0.6	2,523	3,460	4,954
Storage (grain) Pole	• •	2.06		1.061	3.735	3.055		1.12			2.031	1.661
Linker Metal	•	3.83		1,972	2,950	5,132		1.63		839	1,255	2,185
Other Total	: 2.12		2.05	1,060:	1,393	: 1,393 : 1,712 : : 1,590 : 1,462 :	0.70	: 1.15	. 0.82	363		.
Morage (machinery) Fole		1.60		2,387				0.89		1,328	1,379	
				2,178:	1,364	: 2,538 : : 1,531 :		8. G		1,417		
oche Total	1.48		17:	2,226	2,255	2,456 :	0.87	. 29	. 0.74	1.291	1.235	504

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Table 5.--Dimension and board lumber used in farm building construction per square foot of flow area and per building, by building and frame type, during survey periods --continued

Para building and					Sur	Survey periods	spo					
			Dimension lumber	lumber					Board	Board lumber		
	.1958-	60:1963-6	1958-60:1963-65:1968-70:1958-60:1963-65:1968-70:1958-60:1963-65:1968-70:1958-60:1963-65:1968-70	1958-60	1963-65	1968-70:	1958-60	1963-65	1968-70	1958-60	1963-6	1.1968-7
	8	NED FT./SQ. FLOOR AREA	BOAND FT./SQ. FT. OF : FLOOR AREA	BOARD	BOARD FT./BUILDING	DING	BOARD	FT./SQ.	7. 9	BOARD FT./SQ. FT. OF : BOARD FT./BUILDING FLOOR AREA	FT./BU	LDING
Other buildings Fole Lember Metal Other Fotal	2.08	1.70	2 2 	1,280 1,732 1,130 1,130	2,217 : 2,999 : 1,565 : 1,956 : 2,549 :	3,815 : 5,164 : 2,685 : 3,371 : 4,307 :	la la	0.75	 [2]	565 1,129 1,129 1,129 1,129	978 : 1,956 : : 652 : 1,383 : :	1,683
M1 service buildings Pole Lumber Metal Other Total	5.1.1.2.2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	1.73	11: 22: 3: 3: 3: 3: 3: 3: 3: 3: 3: 3: 3: 3: 3:	2,579 : 2,515 : 549 : 1,828 : 2,181 :	3, 229 : 2, 936 : 2, 623 : 2, 567 :	3,474 : 0.93 3,908 : .84 631 : .10 3,003 : .55 2,756 : 0.80				1,395 1,186 66 654 1,045		1,757 1,907 1,023 1,023
wellings Fole Lather Metal Other Total	5.1	5.5 5.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	5.15	3,958 : 7,625 : : 7,215 :	3,020 : 8,525 : : 10,790 :	5,467 : 9,081 : : 8,658 :	1.69	1.64	1.69	2,457	1,528 2,747 2,395 2,608	: 2,767 : 2,926 : 1,766 : 2,840

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Table 5. -- Dimension and board lumber used in farm building construction per square foot of floor area and per building, by building and frame type, during survey periods -- continued

Farm building and frame type					1						Popular Limber		
	1958-60	1363-6	55:1968-70:1958-60	70:19	109-8X	1963-65	1968-70	1958-6	9-1963-6	5:1968	1956-60.1963-65:1968-70:1958-60:1963-65:1968-70:1958-60:1963-65:1968-70:1958-60:1963-65:1968-70:1958-60:1968-70:1968-7	0:1963-65	1968-70
	BOARD	NO FT./SQ.	BOAND FT./50. FT. OF: BOAND FT./BUILDING FLOOR AREA:		BOARD	108/.14	LDING	NOE :	BOARD FT./SQ. FT. OF:	E	P . BOAR	BOARD PT./BUILDING	CDITAG
Other dwallings and bunkhouses Fole Lumber Serial Other Fotal		3.70 3.10 5.71 5.30	5.29		2,587 : 3,914 : 699 : 3,699 :	3,007 4,488 594 3,981 4,256	2,721 4,177 1,000 3,362 3,940	1.73	1.60	i.	1,160 1,258 1,258 1,33	1,301 1,442 710 1,884 1,386	1,176 1,343 1,200 1,286
All deadlings Pole Lumber Beral Other Total	2.2.1.5	2 2 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	5.42		3,610 : 6,925 : 138 : 5,712 : 6,519 :	5,185 7,586 118 6,556 7,329	6,790 146 146 16,675 17,763	2 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.63	11.65	1 1,790 1 2,231 1 1,266 2 1,266 2 1,269	2,528 2,444 2,444 11,455 1,455	2,375 2,641 175 1,482 2,545
Ml buildings Pole Lumber Hetal Other Total	7.1. 2.52 2.10 2.10 2.10	2.76 2.70 75 1.87	2.50 17. 17. 17. 17. 17. 17. 17. 17. 17. 17.		2,623 : 3,497 : 545 : 2,487 : 2,783 :	3,269 4,078 596 3,082 3,170	3,503 4,661 629 3,309				1,412 : 1,419 : 67 : 758 : 1,196 :	: 1,705 : 1,728 : 65 : 961 : 1,389	: 1,771 : 2,036 : 80 : 1,061 : 1,378

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Table 6.--Poles and plywood used in farm building construction, by building and frame type, during the survey periods

Poles	## 1963-65 : 1968-70 : 1958-60 : 1963-65 : 1968-70 ## HOUSAND SQUARE FETT	Farm building and frame type	•				Survey	1	periods			
### THOUSAND LINEAR FEET : THOUSAND SQUARE FEET (3/8-inch basis) Dairy barns	## THOUSAND SQUARE FETT ## THOUSAND SQUARE FETT ## (3/8-inch basis) ## ## 14,231	rrame type	:			Poles		•				
Carry barns	: (3/8-inch basis) 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1		:	1958-60		1963-65 :	1968-70		1958-60 :			1968-70
Pole : 1,511 : 8,005 : 8,937 : 2,014 : 14,231 : 18, Lumber : 1,816 : 1,563 : 2,017 : 33,407 : 38,125 : 57, Metal : 208 : 506 : 893 :	1,563 : 2,017 : 33,407 : 38,125 : 57,686 506 : 893 : : : 10,074 : 11,847 : 43,711 : 77,062 : 93,252 14,927 : 11,897 : 20,573 : 14,927 : 14,060 2,119 : 1,424 : 61,403 : 44,070 : 34,754 : : 548 : 639 : 1,387 119 : 64 : 386 : 476 : 302 17,165 : 13,385 : 82,910 : 60,112 : 50,503 2,990 : 7,104 : 20,167 : 19,115 : 53,027 : : 36,638 : 56,720 : 104,636 : : 15 : 91 : 249 : : 15 : 91 : 249 2,990 : 7,104 : 56,820 : 80,420 : 161,266		•	THOU	S	AND LINEAR	FEET	:				
Pole : 1,511 : 8,005 : 8,937 : 2,014 : 14,231 : 18, Lumber : 1,816 : 1,563 : 2,017 : 33,407 : 38,125 : 57, Metal : 208 : 506 : 893 : : : Other : : : 8,290 : 24,706 : 17, Total : 3,535 : 10,074 : 11,847 : 43,711 : 77,062 : 93, General-purpose barns : : : : : : : : : : : : : : : : : : :	1,563 : 2,017 : 33,407 : 38,125 : 57,686 506 : 893 : : : 10,074 : 11,847 : 43,711 : 77,062 : 93,252 14,927 : 11,897 : 20,573 : 14,927 : 14,060 2,119 : 1,424 : 61,403 : 44,070 : 34,754 : : 548 : 639 : 1,387 119 : 64 : 386 : 476 : 302 17,165 : 13,385 : 82,910 : 60,112 : 50,503 2,990 : 7,104 : 20,167 : 19,115 : 53,027 : : 36,638 : 56,720 : 104,636 : : 15 : 91 : 249 : : 15 : 91 : 249 2,990 : 7,104 : 56,820 : 80,420 : 161,266	Dairy barns										
Lumber : 1,816 : 1,563 : 2,017 : 33,407 : 38,125 : 57, Metal : 208 : 506 : 893 : : : : 7,000 : 17, Total : 3,535 : 10,074 : 11,847 : 43,711 : 77,062 : 93,	1,563 : 2,017 : 33,407 : 38,125 : 57,686 506 : 893 : : : 10,074 : 11,847 : 43,711 : 77,062 : 93,252 14,927 : 11,897 : 20,573 : 14,927 : 14,060 2,119 : 1,424 : 61,403 : 44,070 : 34,754 : : 548 : 639 : 1,387 119 : 64 : 386 : 476 : 302 17,165 : 13,385 : 82,910 : 60,112 : 50,503 2,990 : 7,104 : 20,167 : 19,115 : 53,027 : : 36,638 : 56,720 : 104,636 : : 15 : 91 : 249 : : 15 : 91 : 249 2,990 : 7,104 : 56,820 : 80,420 : 161,266			1.511		8 005	8 937	:	2 014 .	14 231		18 370
Netal : 208 : 506 : 893 :	506 : 893 : : 17,196 : : 8,290 : 24,706 : 17,196 10,074 : 11,847 : 43,711 : 77,062 : 93,252 14,927 : 11,897 : 20,573 : 14,927 : 14,060 2,119 : 1,424 : 61,403 : 44,070 : 34,754 : : 548 : 639 : 1,887 119 : 64 : 386 : 476 : 302 17,165 : 13,385 : 82,910 : 60,112 : 50,503 2,990 : 7,104 : 20,167 : 19,115 : 53,027 : : 36,638 : 56,720 : 104,636 : : 15 : 91 : 249 : : 2,494 : 3,354 2,990 : 7,104 : 56,820 : 80,420 : 161,266											
Other :	: 8,290 : 24,706 : 17,196 10,074 : 11,847 : 43,711 : 77,062 : 93,252 14,927 : 11,897 : 20,573 : 14,927 : 14,060 2,119 : 1,424 : 61,403 : 44,070 : 34,754 : : 548 : 639 : 1,387 119 : 64 : 386 : 476 : 302 17,165 : 13,385 : 82,910 : 60,112 : 50,503 2,990 : 7,104 : 20,167 : 19,115 : 53,027 : : 36,638 : 56,720 : 104,636 : : 15 : 91 : 249 2,990 : 7,104 : 56,820 : 80,420 : 161,266											
Total : 3,535 : 10,074 : 11,847 : 43,711 : 77,062 : 93, General-purpose barns : : : : : : : : : : : : : : : : : : :	10,074 : 11,847 : 43,711 : 77,062 : 93,252 14,927 : 11,897 : 20,573 : 14,927 : 14,060 2,119 : 1,424 : 61,403 : 44,070 : 34,754 : : 548 : 639 : 1,387 119 : 64 : 386 : 476 : 302 17,165 : 13,385 : 82,910 : 60,112 : 50,503 2,990 : 7,104 : 20,167 : 19,115 : 53,027 : : 36,638 : 56,720 : 104,636 : : 15 : 91 : 249 2,990 : 7,104 : 56,820 : 80,420 : .61,266	Other			100							
Pole : 26,624 : 14,927 : 11,897 : 20,573 : 14,927 : 14, Lumber : 3,936 : 2,119 : 1,424 : 61,403 : 44,070 : 34, Metal : : : 548 : 639 : 1, Other : 129 : 119 : 64 : 386 : 476 : Total : 30,689 : 17,165 : 13,385 : 82,910 : 60,112 : 50, Hog houses : : : : : : : : : : : : : : : : : :	2,119 : 1,424 : 61,403 : 44,070 : 34,754 : : 548 : 639 : 1,387 119 : 64 : 386 : 476 : 302 17,165 : 13,385 : 82,910 : 60,112 : 50,503 2,990 : 7,104 : 20,167 : 19,115 : 53,027 : : 36,638 : 56,720 : 104,636 : : 15 : 91 : 249 2,990 : 7,104 : 56,820 : 80,420 : 161,266 11,366 : 12,141 : 49,503 : 49,776 : 61,959 : : 229,112 : 135,847 : 191,108	Total	•	3,535	٠		11,847				ï	
Lumber : 3,936 : 2,119 : 1,424 : 61,403 : 44,070 : 34, Metal : : : 548 : 639 : 1, Other : 129 : 119 : 64 : 386 : 476 : Total : 30,689 : 17,165 : 13,385 : 82,910 : 60,112 : 50, Hog houses : : : : : : : : Pole : 4,214 : 2,990 : 7,104 : 20,167 : 19,115 : 53, Lumber : : : 36,638 : 56,720 : 104, Metal : : : 15 : 91 : Other : : : 15 : 91 : Other : : : : 2,494 : 3, Total : 4,214 : 2,990 : 7,104 : 56,820 : 80,420 : .61, Poultry houses : : : : : : : : : : : : : : : : : :	2,119 : 1,424 : 61,403 : 44,070 : 34,754 : : 548 : 639 : 1,387 119 : 64 : 386 : 476 : 302 17,165 : 13,385 : 82,910 : 60,112 : 50,503 2,990 : 7,104 : 20,167 : 19,115 : 53,027 : : 36,638 : 56,720 : 104,636 : : 15 : 91 : 245 : : 2,494 : 3,354 2,990 : 7,104 : 56,820 : 80,420 : .61,266 11,366 : 12,141 : 49,503 : 49,776 : 61,955 : : 229,112 : 135,847 : 191,106	General-purpose barns										
Netal : : : 548 : 639 : 1, Other : 129 : 119 : 64 : 386 : 476 : Total : 30,689 : 17,165 : 13,385 : 82,910 : 60,112 : 50, Hog houses : : : : : : : : Pole : 4,214 : 2,990 : 7,104 : 20,167 : 19,115 : 53, Lumber : : : 36,638 : 56,720 : 104, Netal : : : 15 : 91 : Other : : : : 2,494 : 3, Total : 4,214 : 2,990 : 7,104 : 56,820 : 80,420 : .61, Poultry houses : : : : : : : : : : Pole : 15,111 : 11,366 : 12,141 : 49,503 : 49,776 : 61, Lumber : : : 229,112 : 135,847 : 191, Metal : : : 229,112 : 135,847 : 191,	: 548 : 639 : 1,387 119 : 64 : 386 : 476 : 302 17,165 : 13,385 : 82,910 : 60,112 : 50,503 2,990 : 7,104 : 20,167 : 19,115 : 53,027 : : 36,638 : 56,720 : 104,636 : : 15 : 91 : 249 : : : 2,494 : 3,354 2,990 : 7,104 : 56,820 : 80,420 : .61,266 11,366 : 12,141 : 49,503 : 49,776 : 61,959 : : 229,112 : 135,847 : 191,108	Pole		26,624	:	14,927 :	11,897	:	20,573 :	14,927		14,060
Other	119: 64: 386: 476: 302 17,165: 13,385: 82,910: 60,112: 50,503 2,990: 7,104: 20,167: 19,115: 53,027:: 36,638: 56,720: 104,638:: 15: 91: 249:: 2,494: 3,354 2,990: 7,104: 56,820: 80,420:61,266			3,936	:	2,119 :	1,424	:	61,403 :	44,070	:	34,754
Total : 30,689 : 17,165 : 13,385 : 82,910 : 60,112 : 50, Hog houses : : : : : : : : : : : : : : : : : :	17,165 : 13,385 : 82,910 : 60,112 : 50,503 2,990 : 7,104 : 20,167 : 19,115 : 53,027 : : 36,638 : 56,720 : 104,636 : : 15 : 91 : 249 : : : 2,494 : 3,354 2,990 : 7,104 : 56,820 : 80,420 : .61,266								548 :	639		1,387
Hog houses : : : : : : : : : : : : : : : : : :	2,990: 7,104: 20,167: 19,115: 53,027: 36,638: 56,720: 104,636: 15: 91: 249: 2,494: 3,354 2,990: 7,104: 56,820: 80,420:61,266											302
Pole : 4,214 : 2,990 : 7,104 : 20,167 : 19,115 : 53, Lumber : : : 36,638 : 56,720 : 104, Metal : : : 15 : 91 : Other : : : : 2,494 : 3, Total : 4,214 : 2,990 : 7,104 : 56,820 : 80,420 : .61, Poultry houses : : : : : : Pole : 15,111 : 11,366 : 12,141 : 49,503 : 49,776 : 61, Lumber : : : 229,112 : 135,847 : 191, Metal : : : : : : :	; : 36,638 : 56,720 : 104,636 : : 15 : 91 : 249 : : : 2,494 : 3,354 2,990 : 7,104 : 56,820 : 80,420 : 1.61,266	Total		30,689	:	17,165 :	13,385	:	82,910 :	60,112	•	50,503
Lumber : : : 36,638 : 56,720 : 104, Metal : : : 15 : 91 : Other : : : : 2,494 : 3, Total : 4,214 : 2,990 : 7,104 : 56,820 : 80,420 : .61, Poultry houses : : : : : : : : : Pole : 15,111 : 11,366 : 12,141 : 49,503 : 49,776 : 61, Lumber : : : 229,112 : 135,847 : 191, Metal : : : : 229,112 : 135,847 : 191,	; : 36,638 : 56,720 : 104,636 : : 15 : 91 : 249 : : : 2,494 : 3,354 2,990 : 7,104 : 56,820 : 80,420 : 1.61,266							:				
Netal : : : 15 : 91 : 91 : 2,494 : 3, 70tal Other : : : : 2,494 : 3, 7,104 : 56,820 : 80,420 : .61, .61, .61, .61, .61, .61, .61, .61,	: : 15 : 91 : 249 : : 2,494 : 3,354 2,990 : 7,104 : 56,820 : 80,420 : .61,266 11,366 : 12,141 : 49,503 : 49,776 : 61,959 : : 229,112 : 135,847 : 191,108		:	4,214	:	2,990 :	7,104	:	20,167 :	19,115	:	53,027
Other : : : : : 2,494 : 3, Total : 4,214 : 2,990 : 7,104 : 56,820 : 80,420 : .61, Poultry houses : : : : : : : : : : : : : : : : : :	2,990 : 7,104 : 56,820 : 80,420 : .61,266				:	;		:	36,638 :	56,720		104,636
Total : 4,214 : 2,990 : 7,104 : 56,820 : 80,420 : .61, Poultry houses : : : : : : : : : : : : : : : : : :	2,990 : 7,104 : 56,820 : 80,420 : .61,266 11,366 : 12,141 : 49,503 : 49,776 : 61,959 : : 229,112 : 135,847 : 191,108					:		:	15 :	91		249
Poultry houses : : : : : : : : : : : : : : : : : :	11,366 : 12,141 : 49,503 : 49,776 : 61,959 : : 229,112 : 135,847 : 191,108				:		<u> </u>	:	;	2,494	:_	3,354
Pole : 15,111 : 11,366 : 12,141 : 49,503 : 49,776 : 61, Lumber : : : 229,112 : 135,847 : 191, Metal : : : : :	: : 229,112 : 135,847 : 191,106	Total	•	4,214	:	2,990 :	7,104	:	56,820 :	80,420	,	61,266
Lumber : : : 229,112 : 135,847 : 191, Metal : : : : :	: : 229,112 : 135,847 : 191,108							:				
Metal : : : : :				15,111	:	11,366 :				49,776		61,959
					:	;		:	229,112 :	135,847	:	191,108
Other : : : 4,399 : 10,815 : 4,	: : 4,399 : 10,815 : 4,298		:		:	:		:			:	
Total : 15,111 : 11,366 : 12,141 : 283,014 : 196,438 : 257,	11,366 : 12,141 : 283,014 : 196,438 : 157,365				:	:		:			:_	

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Table 6.--Poles and plywood used in farm building construction, by building and frame type, during the survey periods--continued

Farm building and frame type	•		Survey	periods		
riame cype		Poles			Plywood	
	: 1958-60	: 1963-65 :	1968-70	: 1958-60 :	1963-65	: 1968-70
	: THOU	SAND LINEAR	FEET		SAND SQUARE /8-inch bas	
Storage (grain)						
Pole	: 1,856	: 12,847 :	11,428	: 898 :	8,288	: 8,479
Lumber		:		: 12,044 :		: 17,637
Metal		:		:		
Other		:		: 417 :	968	: 825
Total	: 1,856	: 12,847 :	11,428	: 13,359 :	19,841	: 26,941
Storage (machinery)	•					
Pole	: 8,032	: 9,861 :	7,387	: 8,650 :	13,654	: 11,933
Lamber		: :		: 4,818 :	6,046	: 4,940
Metal	:	:		; :		
Other		: <u></u> :		: 14 :	788	: 394
Total	: 8,032	9,861 :	7,387	: 13,482 :	20,488	: 17,267
Other buildings	,					
Pole	: 3,398	9,659 :	9,961	: 16,198 :	61,171	: 73,711
Lumber	•	: ;				: 138,849
Metal	:	: :		: 162 :		: 1,712
Other	:	: <u></u> :		: _ 5,143 :	13,612	: 16,883
Total	: 3,398	: 9,659 :	9,961	: 71,551 :	176,829	: 231,155
All service buildings						
Pole	: 60,746	: 69,655 :	68,855	: 118,003 :	181,162	: 241,539
Lumber	: 5,752	: 3,682 :	3,441	: 427,470 :	394,833	: 549,610
Metal	: 208		893	725 :	1,336	: 3,348
Other	: 129	:119 :	64	: 18,649 :	53,859	: 43,252
Total	: 66,835	73,962 :	73,253	: 564,847 :	631,190	837,749

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Table 6.--Poles and plywood used in farm building construction, by building and frame type, during the survey periods--continued

frame type : : : : : : : : : : : : : : : : : : :	1,031	SAND LINEAR : : :	PEET		Plywood 1963-65 SAND SQUARE /8-inch bas	
Operator dwellings : Pole : Lumber :	1,031	: 1963-65 : :: SAND LINEAR : : :	PEET	THOU	SAND SQUARE	FEET
Operator dwellings : Pole : Lumber :	1,031	: : : 582 :				
Pole :						
Lumber :						
			598	: 14,955 :	11.260	: 13,539
Metal .		:		316,743 :		: 248,154
		,		;		
Other :		:		13,219 :	21,306	: 9,922
Total :	1,031	582 :	598	344,917 :		: 271,615
Other dwellings and :						•
bunkhouses :		:				
Pole :	200	173 :	85	3,434 :	3,946	: 2,278
Lumber :	:	:	:	36,801 :	41,690	: 24,369
Metal :		:		73 :		: 48
Other :				2,449 :		:1,623
Total :	200	173 :	85	42,757 :	48,614	: 28,318
All dwellings :						
Pole :	1,231	755 ;	683		15,206	: 15,817
Lumber :	;	:	,	353,544 :	390,699	: 272,523
Metal :	:	:	;	73 :	62	: 48
Other :		· ;	1	15,668 :	24,222	: 11,545
Total :	1,231	755 :	683	387,674 :	430,189	299,933
All buildings :		4.9				
	61 077	70,410 :	60 536	126 202	100 000	
Pole :	5,752			136,392 : 781,014 :		: 257,356
Metal .	208		893			: 822,133
Other	129					: 3,396
Total :	68,066			34,317 : 952,521 :		: 54,797 :1.137.682

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Table 7.--Poles used in farm building construction per square foot of floor area and per building, by building and frame type, during survey periods

Farm building and frame type	•				Survey						
	: 1958-6	0 :	1963-6	5 :	1968-70	:	1958-60	:		:	1963-70
			T./SQ.						R FT./BU		
	•	FI	LOOR ARI	EA		:					
Dairy barns	. ` -					:					
Pole	•		0.18			:	234	:	458		648
Lumber			. 05			:	65		96		151
Metal			.07			:	91	:	138		250
Other		:				:					
Total	: 0.06	•	0.10	•	0.10	•	80	:	205	•	315
General-purpose barns											
Pole			0.22			:	361		414		390
Lumber	•		.05			:	82		94		89
Metal						:					
Other			.04			:	66		76		71
Total	: 0.15	•	0.15		0.14	•	242	•	273	•	254
Hog houses											
Pole			0.28			:	191		320		272
Lumber											
Metal	: 243					:		:			
Other											
Total	: 0.12	•	0.08	•	0.11	:	84	•	66	:	87
Poultry houses											
Pole			0.29			:	1,126		1,418		2,244
Lumber											
Metal											
Other											
Total	: 0.07		0.10		0.09		291		469		671

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Table 7.--Poles used in farm building construction per square foot of floor area and per building, by building and frame type, during survey periods--continued

Parm building and	•					Survey p	er	iods				
frame type	: 1	958-60		THE RESERVE OF THE PARTY OF THE	100	1968-70	100		ATT			1968-70
	;	LINEA		T./SQ. 1	7	•	:			FT./BU	ILL	ING
Storage (grain)												
Pole				0.31				160		562	:	460
Lumber									:		:	
Metal									:		:	
Other	:				:				:		:	
Total	•	0.02	:	0.14	•	0.11		12	:	108	:	76
Storage (machinery)												
Pole				0.13				194		201		226
Lumber	:										:	
Metal									:		:	
Other					:						:	
Total	:	0.06	•	0.06	:	0.06	•	92	•	96	•	104
Other buildings												
Pole				0.30				226		391		673
Lumber												
Metal	:								:		:	
Other	:				:							
Total		0.07	•	0.10		0.09		49	•	127	•	191
All service buildings												
Pole		0.22		0.22		0.23		331		416		465
Lumber		.01		.01		.01		20		20		22
Metal		.0032		.01		.01		2		5		6
Other		.01		.002		.002		6		4		3
Total		0.09		0.10		0.10		114		154		158

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Table 7.--Poles used in farm building construction per square foot of floor area and per building, by building and frame type, during survey periods--continued

Farm building and	•					Survey		eriods				
frame type	: 1							1958-60				1968-70
	:	LINEA		T./SQ.		OF	:	LIN	EAF	FT./BU	ILE	ING
Operator dwellings									:		•	
Pole				0.14			:	171	:	131	:	236
Lumber							:		:		:	
Metal							:		:		:	
Other	:						:	===	:		:	
Total	•	0.01	•	0.01	•	0.01	•	14	•	10	•	19
Other dwellings and												
bunkhouse							:		:		:	
Pole				0.14			:	98	:	114	:	103
Lumber							:		:		:	()
Metal							:		:		:	
Other			:		:		:	===	:		:	
Total	•	0.02	•	0.02	•	0.02	•	11	:	13	•	11
All dwellings							:					
Pole				0.14			:	152	:	217	:	203
Lumber	:						1				:	
Metal							:		:		:	
Other	•		:		:		:		:		:	
Total	•	0.01	•	0.01	•	0.01	:	13	•	11	•	17
All buildings												
Pole		0.22		0.22		0.23		323		412		459
Lumber		.01		.01		.01		16		15		18
Metal		.003		.01		.01	:	2		5		6
Other		.004		.002		.002		5		3		3
Total		0.08		0.09		0.09		100		136		147

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Table 8.--Plywood used in farm building construction per square foot of floor area and per building (3/8-inch basis), by building and frame type during survey periods

Farm building and							Survey	P	eriods				
frame type	•	1958-6	0 :				1968-70	• •	1958-60		1963-65	-:	1968-70
	-:						o/sq.	:	so.	F	r. OF PL	YW	00D/
		F'	T.	OF F	LOOR	Al	REA	:		1	BUILDING		
Dairy barns													
Pole		0.24		(0.32		0.37		311		813		1,332
Lumber		.92		. 1	1.22		1.43	:	1,194	:	2,350		4,311
Metal	:					:		:		:		:	
Other	:	.88			1.17	:	1.37	:	1,142	:	2,079	:	2,524
Total	:	0.77		ī	0.74	•	0.81		925	:	1,565	:	2,483
General-purpose barns													
Pole	:	0.17		. (0.22	:	0.26		279		414	:	461
Lumber	:	.78			1.04	:	1.22	:	1,280		1,955	:	2,163
Metal	:	.10			.13	:	.15	:	164	:	242	:	267
Other	:	.12			.16	:	.19	:	197		303		340
Total	:	0.40	•	• 7	0.51	•	0.54	:	653		957	:	959
Hog houses													
Pole	:	1.34			1.79		2.09		912		2,048	:	2,032
Lumber		1.96			2.61		3.05	:	1,335		1,711	:	2,144
Metal	:	.05	:		.06	:	.07	:	33	:	71	:	57
Other	:	.86	:	1	1.14	:	1.33			:	1,438	:	1,583
Total	•	1.58	•		2.18	•	2.45	:	1,136	:	1,768	:	1,982
Poultry houses													
Pole		0.95		1	1.27		1.48		3,689		6,210		11,451
Lumber	:	1.60	:		2.13		2.49		6,214		10,415		19,224
Metal	:												
Other	:	.99		1	1.32		1.54	:	3,845	:	6,457		10,561
Total	:	1.40			. 66	:	1.84	:	5,443		8,104		14,222

(Page 1 of 3)

Table 8.--Plywood used in farm building construction per square foot of floor area and per building (3/8-inch basis), by building and frame type during survey periods--continued

Farm building and						Survey p						
frame type		1958-60		1963-65	:	1968-70	:	1958-60	:	1963-65		
	-;-	THE RESERVE OF THE PARTY OF THE	T.	OF PLYN	100	CAS PARTICIPATION OF THE RESIDENCE OF TH	:		F	T. OF PI		100D/
	:	FT.	0	F FLOOR	AR	EA	:		1	BUILDING	,	
Storage (grain)												
Pole		0.15		0.20		0.23				363		341
Lumber		.41		.55		. 64		211		424		858
Metal	:											
Other		.29		.38		.44	:	150		317		451
	:	0.17	:	0.21	•	0.25	:	86	:	167	:	179
Storage (machinery)												
Pole	:	0.14	:	0.18	:	0.21	:	209	:	279	:	365
Lumber	:	. 08	:	.10	:	.12	:	119	:	155		209
Metal	:		:		:		:		:			
Other	:	.11	:	.14	:	.16	:	160	:	217	:	278
Total	:	0.10	:	0.13	:	0.14	:	155	:	200	:	244
Other buildings												
Pole	:	1.43	:	1.90	:	2.22	:	1,077	:	2,477	:	4,981
Lumber	:	1.50	:	2.00	:	2.38	:	1,130	:	2,608	:	5,344
Metal	:	.08	:	.10		.12	:	60	:	130	:	269
Other	:	. 98	:	1.30	:	1.52	:	738	:	1,695	:	3,416
Total	•	1.38	•	1.78	:	1.98	:	1,037	:	2,319	:	4,437
All service buildings												
Pole	:	0.43	:	0.58	:	0.81	:	642	:	1,082		1.631
Lumber	:	1.07	:	1.36	:	1.79	:	1,516	:	2,102	:	3,469
Meta1	:	.01	:	.02	:	.03	:	7	:	14		
Other	:	.78	:	1.01	:	1.24	:	923	:	1,706		2,349
Total	:	0.74	:	0.87		1.10	:	967	:	1,317		1,809

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Table 8.--Plywood used in farm building construction per square foot of floor area and per building (3/8-inch basis), by building and frame type during survey periods--continued

Farm building and						Surve	, P	eriods				
frame type		1958-60) :	1963-6	5 ;	1968-70	;	1958-60	-:	1963-65	-:	1968-70
				OF PLY			:	sQ.		T. OF PI		00D/
Operator dwellings												
Pole		2.03		2.71		3.17		2,480	i	2,526		5,349
Lumber		3.42				5.33		4,829		7,199		8,963
Metal												
Other		3.14		4.19		4.89		4.384	-70	9,559	G1959	8,227
Total	•	3.28	•	4.42	•	5.09		4,578		6,847		8,556
Other dwellings and												
bunkhouses												
Pole		2.40		3.20		3.74		1,678		2,601	BE95	2,751
Lumber		3.45		4.60		5.37		2.411		3,686		4,005
Metal		.56		.75		.88		393		449		1965 (15) :
Other		3.14		4.19		4.89		2,193		3,526		3,476
Total	:	3.29	•	4.39	•	5.12		2,297		3,525	:	3,809
All dwellings												
Pole		2.09		2.82		3.24		2,276		4,375		4,709
Lumber	:	3.42		4.56		5.33		4,373		6,386		8,070
Metal		.06		.08		.08		78				
Other		3.14		4.19		4.89		3,792		5,807		6,901
Total	•	3.27	•	4.41	•	5.09		4,124	•	6,188	•	7,656
All buildings												
Pole		0.48		0.62		0.85	•	711		1.149		1.699
Lumber		1.55		2.09		2.30		2,153		3,154		4,278
Metal		.01		. 02		.03		8		15		
Other		1.19		1.33		1.47	Market S	1,410		2,184	12 1	2,728
Total		1.08		1.28		1.39		1,405		1,934		2,265

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Year	. Value	Value of new	3	Lumber	2	Poles	: Plywood	7
	(atiliton	put in place (million dollare)	: Million : board feet		Million linear feet	: Linear feet/ : \$1,000	Million square feet	: Square feet/ : \$1,000
Ï	current	current : constant		construction : value :		construction	(3/8-inch basis)	construction value
1958 :		3						
1960	2	S 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	: : 1884.4	:	9,9	: : 23.6	8,495	199.6
1963 :	958	1109	•• ••		* 5			
1965		345 345 ::	: 1827.9	: 546.5 :	74.0	: 22.1	631.2	: 188.7
1968 :	1221	: 1173		••				••
1970		: 3552	1.868.1	: 525.9 :	73.3	20.6	837.7	: 235.8
: 5761		: 1383		•				
1975	2219							
		3//5	1860.0	: 493.0	71.7	: 19.0	0.006 :	: 239.0

¹U.S. Department of Commerce, Bureau of Domestic Commerce, "Construction Review," Vol. 22, No. 1, Table A-2, January-Pebruary 1976.

U.S. Forest Products Laboratory.

Wood products used in farm building construction in the United States, 1958-1975, by William H. Reid and David C. Baumgartner. Madison, Wis., For. Prod. Lab., 1977.

37 p. (U.S. Dep. Agric. For. Serv. Resource p. FFL-2).

Estimates are presented of the amounts of lumber, poles, and plywood used in farm buildings in the U.S. during three agricultural census periods and extended to 1975. Amounts of products used are stratified by nine building types and four structural frame types.

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